

# **Pennsylvania Avenue SE Transportation Study**

## **Scope of Work**

### **May 21, 2002**

#### **Purpose**

The District Department of Transportation (DDOT) proposes to investigate transportation management and truck management improvements in the Pennsylvania Avenue SE area from the Sousa Bridge to 28<sup>th</sup> Street SE. These efforts are in response to citizen concerns regarding speeding traffic and other safety concerns. The purpose of the study is to examine existing and future traffic conditions in the study area and to determine short-term and long-term traffic management and infrastructure improvements to reduce traffic congestion, especially during peak morning and evening travel hours; improve traffic and pedestrian safety and improve access to local businesses.

#### **Study Area**

The “study area” for this project includes the following area:

- Pennsylvania Avenue SE from the Sousa Bridge to Southern Avenue SE, with special emphasis on transportation issues on Pennsylvania Avenue SE from the Sousa Bridge to 28<sup>th</sup> Street SE.

#### **Definition of Work**

The contractor will examine existing and projected transportation conditions in the study area and make recommendations to improve mobility and transportation safety. Over a 20-week period, the contractor will investigate current and future needs regarding vehicle, pedestrian and bicycle mobility and safety and work in close coordination with community stakeholders in addressing their traffic and safety concerns.

**The contractor shall prepare a proposed study scope of work, project schedule and proposed budget and submit these documents to the project manager at the end of week #1.**

#### **Description of Work to be Performed**

##### **Task 1: Scoping Meeting**

The contractor shall develop a meaningful community participation process that will consist of at least four meetings with community stakeholders in the study area. The purpose of these meetings shall be to obtain input for development of the transportation management concept designs. The first meeting will be held with Advisory Neighborhood Commission 7-B and 8-A (*Check on proper ANC designation following redistricting*), the East of the River Task Force, and other local community groups and stakeholders to discuss the proposed scope of work and schedule for the traffic study, and receive public comment. This meeting will be scheduled for the second week of the study. The aim of this meeting will be to announce the project to the neighborhood, outline the projected timeframe for the study and introduce the contractor to community

stakeholders. This meeting will also allow for community input in refining the study scope of work.

The second public meeting will occur after Task 2 has been completed and while Task 3 and 4 are still under development. The third public meeting will be held after Task 5 is completed. The fourth public meeting will be held after Task 7 is completed. With the assistance of the Division of Transportation and the Office of Planning, the Contractor shall develop a project contact/ mailing list of parties within the study area and other interested parties. The contractor shall also post study information on the DDOT web site.

### **Task #1 to be completed by the end Week Two**

### **Task 2: Collect and Consolidate Data**

The contractor will collect data on the following elements:

- Existing traffic volumes and level of service for roadway segments within the study area. This includes mapping, aerial photography, historical research and other materials available from the DC Office of Planning, DDOT Traffic Services and Transportation Planning, and other District and Federal government agencies.
- Field reconnaissance of the corridor area noting existing land uses, existing roadway geometric and traffic control conditions, traffic flow patterns, transit facilities and services, pedestrian facilities, bicycle facilities (if any), as well as opportunities and constraints pertaining to access from the intersecting sidestreets and driveways.
- Collect land use and transportation information from existing reports on proposed future development projects in the project area, including number of proposed residences, square footage of commercial and office space, number of proposed parking spaces, and projected vehicle trips per day. The contractor shall review existing traffic management plans prepared by project proponents and prepare an analysis of the impact of the projected future traffic of these various proposed future development projects on the existing transportation infrastructure.
- Identify turning motions at key intersections during the morning peak period and the afternoon peak period on typical weekdays. These key intersections should include, but are not limited to, the following intersections:
  1. Pennsylvania Avenue SE and Route #295
  2. Pennsylvania Avenue SE and Minnesota Avenue SE
  3. Pennsylvania Avenue SE and 27<sup>th</sup> Street, SE
  4. Pennsylvania Avenue SE and Branch Avenue, SE
  5. Pennsylvania Avenue SE and Alabama Avenue, SE
  6. Pennsylvania Avenue SE and Southern Avenue, SE

The list of key intersections will be refined during the initial scoping meeting with local ANCs, the East of the River Task Force and neighborhood citizens.

- Mechanical/continuous vehicle volume, speed and classification survey at three locations in the study area, covering a two-week period.
- Travel time and delay studies within the study area, during the morning and afternoon peak periods.
- Generalized origin-destination observations at key portal points along the corridor.
- Generalized parking inventories and usage surveys for the study area.
- Queuing observation of traffic along the major corridors of the study area.
- Number and type of truck traffic occurring in the study area.
- Prepare a brief report summarizing findings of Task #2.

#### **Task #2 to be completed Week Eight**

The consultant shall schedule a public meeting including Advisory Neighborhood Commission 7-B and 8-A, the East of the River Task Force and other local community groups and stakeholders to review the findings of Task 2 and obtain community comment to ensure that all relevant traffic issues have been properly identified. The consultant shall also prepare a brief status report on preliminary short-term and long-term options, which will also be presented to the community at the public meeting for review and comment.

**This Public Meeting shall be scheduled for Week 9.**

#### **Task 3: Short-term Options**

The contractor will analyze the current and projected future vehicular, bicycle and pedestrian traffic conditions and identify short-term options which could be implemented within 12 months to improve mobility, safety and reduce congestion, such as traffic control measures, traffic calming measures, improved signage, signalization, channelization, etc. The contractor shall prepare a brief report summarizing their findings and recommended short-term improvements. As part of this analysis the contractor will calculate the impact of each proposed improvement on mobility, safety, and level of service within the study area. The contractor shall also analyze average delays, queues and travel times along the corridor both with and without the recommended short-term options using a Sychro software-modeling program.

**Task #3 to be completed Week 12**

#### **Task 4: Long-term Options**

The contractor will analyze the current and projected future traffic situation and identify long-term options to improve mobility, safety and reduce congestion, such as road widening, intersection modification and other long-term improvements that would take longer than 12 months to implement. The contractor shall also identify methods of improving transit, pedestrian and bicycle connections. The contractor shall prepare a brief report summarizing their findings and recommended long-term improvements. As part of this analysis the contractor will calculate impact of each proposed improvement on mobility, safety, and level of service. The contractor shall also analyze average delays, queues and travel times along the major corridor both with and without the recommended long-term options using a Synchro software-modeling program.

**Task #4 to be completed Week 12**

**Task 5: Draft Report**

The contractor will prepare a draft report of findings and recommendations regarding traffic and safety improvements from Tasks 2, 3 and 4, including budget estimates and schedules for recommended short and long term improvements, and make 20 copies available to District and Federal agencies, and stakeholder groups.

**Task #5 to be completed Week 12**

**Task 6: Public meeting**

The contractor will conduct a public meeting to review options with the ANC 7-B and 8-A, the East of the River Task Force and other community groups and stakeholders.

**Task #6 to be completed Week 14**

**Task 7: Final Report**

The contractor shall incorporate comments from the public meeting and District and Federal agencies into a final report, including budget estimates and schedules for recommended short and long term improvements, and make 20 copies available to District and Federal agencies, and stakeholder groups.

**Task #7 to be completed Week 18**

**Task 8: Public Meeting**

The contractor will conduct a final public meeting to review the final report with the ANCs, East of the River Task Force, and other community groups and stakeholders.

**Task #8 to be completed Week 20**

**Deliverables**

- ◆ Detailed scope of work and study schedule and project budget.
- ◆ Draft report on findings and preliminary list of recommended short-term and long-term improvements
- ◆ Draft report of short-term and long-term improvements

- ◆ Final report of short-term and long-term improvements
- ◆ Visual aids including maps or aerial photos of study area as needed
- ◆ Monthly progress reports

**Coordination**

Consultant will work closely with the DPW/DDOT/Traffic Services Administration, the ANC 7-B and 8-A, the East of the River Task Force, and other community groups, stakeholders and the DC Office of Planning.

**Key Dates/Schedule**

Week 2: Conduct a scoping meeting with Advisory Neighborhood Commissions, East of the River Task Force and other community groups.

Week 8: Determine existing traffic volumes and level of service for roadway segments within the study area. Identify turning motions at key intersections.

Week 9: Public Meeting

Week 12: Identify short-term and long-term improvements to improve mobility, safety and reduce congestion.

Week 12: Draft Report

Week 14: Public Meeting

Week: 18/20: Final Report and Public Meeting